

Applicants: Jai-Moo YOO et al.
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Amendments to the Claims:

Please amend claims 1-5, cancel claims 6 and 7, and add new claim 8 as follows:

1. (Currently Amended) A method for manufacturing a biaxially textured ~~pure metal or alloy layer deposited~~ material comprising the steps of:

depositing by electroplating process on the surface of a pure metal or alloy substrate having single-crystalline or quasi-single-crystalline orientation, the a biaxially textured pure metal or alloy layer being deposited on the surface of the pure metal or alloy substrate having single-crystalline orientation or quasi-single-crystalline orientation using layer by an electroplating process such as selected from the group consisting of a direct current electroplating process (DC process), a pulse current electroplating process (PC process)-or-, and a periodic reverse current plating process (PR process), on the surface of a metal substrate having a single-crystalline or a quasi-single-crystalline orientation; and

peeling the deposited biaxially textured metal layer off the metal substrate wherein the peeled biaxially textured metal layer has substantially the same texture orientation as that of the metal substrate.

2. (Currently Amended) The method for manufacturing a biaxially textured ~~pure metal or alloy layer deposited by electroplating process on the surface of a pure metal or alloy substrate having single-crystalline orientation or quasi-~~

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~~crystalline orientation~~material according to claim 1, wherein the biaxially textured ~~pure metal or alloy~~ layer is electroplated in a plating solution comprising:

100~400 g/l nickel sulfate,
0~70 g/l nickel chloride,
20~80 g/l boric acid,
0~50 g/l sodium sulfate,
0~10 g/l sodium tungstate, and
0~10 g/l cobalt chloride at pH 1.5~7 and 50~80°C.

3. (Currently Amended) The method for manufacturing a biaxially textured ~~pure metal or alloy~~ layer ~~deposited by electroplating process on the surface of a pure metal or alloy substrate having single crystalline or quasi-single crystalline~~orientation material according to claim 1, wherein the biaxially textured ~~pure metal or alloy~~ layer is deposited in ~~the~~a plating solution at a cathode current density of 3~20 A/dm² using ~~a~~the direct current electroplating process (DC process), the deposited ~~pure metal or alloy~~ layer having a texture fraction (TF) of 0.97 or more on the (001) plane.

4. (Currently Amended) The method for manufacturing a biaxially textured ~~pure metal or alloy~~ layer ~~deposited by electroplating process on the surface of a pure metal or alloy substrate having single crystalline orientation material or similar orientation~~ according to claim 1, wherein the biaxially textured ~~pure metal or alloy~~ layer is deposited in ~~the~~a plating solution under conditions of a cathode current density of 3~20 A/dm², a cathode current time of 1~100 msec and a down time of 1~100 msec

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using ~~a~~the pulse current electroplating process (PC process), the deposited ~~pure metal or alloy layer~~ having a texture fraction (TF) of 0.97 or more on the (001) plane.

5. (Currently Amended) The method for manufacturing a biaxially textured ~~pure metal or alloy layer deposited by electroplating process on the surface of a pure metal or alloy substrate having single crystalline orientation or similar orientation~~material according to claim 1, wherein the biaxially textured ~~pure metal or alloy layer~~ is deposited in ~~the~~a plating solution under conditions of a cathode current density of 3~20 A/dm², a cathode current time of 1~100 msec and an anode current time of 1~100 msec using ~~a~~the periodic reverse current plating process (PR process), the deposited pure metal or alloy layer having a texture fraction (TF) of 0.97 or more on the (001) plane.

6. (Canceled).

7. (Canceled).

8. (New) The method for manufacturing a biaxially textured metal material according to claim 1, further comprising the steps of:

installing a plating apparatus comprising an anode and a cathode dipped in a plating solution, wherein the surface of the cathode is made of at least one of the following selected from the group consisting of: a biaxially textured metal material, and a single crystal, and wherein the cathode form is selected from the group consisting of a cylindrical-type, and a belt-shaped

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cylindrical-type;

rotating the cathode to form a biaxially textured metal layer on the cathode by the electroplating process; and

peeling the electroplated biaxially textured metal layer off the cathode; and

winding the layer on a take-up reel.